

page 1 of 7

Substitute for form 1449A-B/PTO SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)	PATENT & TRADEMARK		Complete if Known	
	Application Number	10/003,496		
	Filing Date	November 1, 2001		
	First Named Inventor	Torben Lauesgaard Nissen		
	Group Art Unit	1645-1646		
	Examiner Name	Unassigned - Prema Menz		
	Attorney Docket Number	0218us210		

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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T
PM	AA	DELGADO, CRISTINA, <i>et al.</i> , "The Uses and Properties of PEG-Linked Proteins" <i>Critical Reviews in Therapeutic Drug Carrier Systems</i> 9 (3, 4): 249-304 (1992)	
↓	AB	YOUNG, DENNIS C., <i>et al.</i> , "Characterization of the receptor binding determinants of granulocyte colony stimulating factor" <i>Protein Science</i> (1997), 6:1228-1236	

Examiner Signature	Prerna Mondal	Date Considered	2/3/04
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(Modified) PTO/SB/08A-B (10-96)
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Substitute for form 1449A-B/PTO

**SUPPLEMENTAL INFORMATION
DISCLOSURE STATEMENT
BY APPLICANT**

(use as many sheets as necessary)

Complete if Known

Application Number	10/003,496
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Group Art Unit	1645-1646
Examiner Name	Unassigned Premia H
Attorney Docket Number	0218us210

U.S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

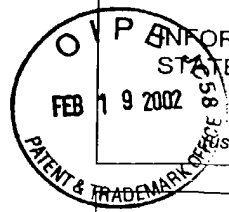
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PM	5	Francis, G.E., <i>et al.</i> , "PEGylation of cytokines and other therapeutic proteins and peptides: the importance of biological optimisation of coupling techniques," <i>International Journal of Hematology</i> , 68(1):1-18 (1998)	

Examiner Signature	<i>Prerna Mittal</i>	Date Considered	2/3/04
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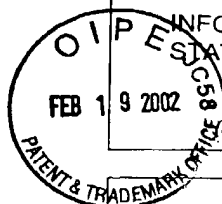


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		Group Art Unit	1645-1646
		Examiner Name	Unassigned - Premia Menz
		Attorney Docket Number	0218us210

U.S. PATENT DOCUMENTS

Examiner Initials	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, lines, Where Relevant Passages or Relevant Figures Appeal
		Number	Kind Code (if known)			
PM	1	4,810,643		Souza	03/06/1989	
	2	4,833,127		Ono <i>et al.</i>	05/23/1989	
	3	4,904,584		Shaw	02/27/1990	
	4	4,999,291		Souza	03/12/1991	
	5	5,214,132		Kuga <i>et al.</i>	05/25/1993	
	6	5,218,092		Sasaki <i>et al.</i>	06/08/1993	
	7	5,218,093		Guo <i>et al.</i>	06/08/1993	
	8	5,281,698		Nitecki	01/25/1994	
	9	5,316,921		Godowski <i>et al.</i>	05/31/1994	
	10	5,320,840		Camble <i>et al.</i>	06/14/1994	
	11	5,349,052		Delgado <i>et al.</i>	09/20/1994	
	12	5,362,853		Kuga <i>et al.</i>	11/08/1994	
	13	5,399,345		Schumacher <i>et al.</i>	03/21/1995	
	14	5,416,195		Camble <i>et al.</i>	05/16/1995	
	15	5,476,653		Pitt <i>et al.</i>	12/19/1995	
	16	5,547,856		Godowski <i>et al.</i>	08/20/1996	
	17	5,580,755		Souza	12/03/1996	
	18	5,580,963		Godowski <i>et al.</i>	12/03/1996	
	19	5,581,476		Osslund	12/03/1996	
	20	5,582,823		Souza	12/10/1996	
	21	5,589,456		Smith <i>et al.</i>	12/31/1996	
	22	5,676,941		Souza	10/14/1997	
	23	5,681,720		Kuga <i>et al.</i>	10/28/1997	
	24	5,684,136		Godowski	11/04/1997	
	25	5,763,584		Godowski	06/09/1998	
	26	5,770,704		Godowski	06/23/1998	
	27	5,773,581		Camble <i>et al.</i>	06/30/1998	
Examiner Signature	Premia Menz			Date Considered	2/3/04	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number	10/003,496
		Filing Date	November 1, 2001
		First Named Inventor	Torben Lauesgaard Nissen
		Group Art Unit	4645-1644
		Examiner Name	Unassigned <i>Prema Mung</i>
		Attorney Docket Number	0218us210

U.S. PATENT DOCUMENTS

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		Number	Kind Code (if known)			
PM	28	5,790,421		Osslund	08/04/1998	
	29	5,795,968		Kuga <i>et al.</i>	08/18/1998	
	30	5,824,778		Ishikawa <i>et al.</i>	10/20/1998	
	31	5,824,784		Kinstler <i>et al.</i>	10/20/1998	
	32	5,830,705		Souza	11/03/1998	
	33	5,880,255		Delgado <i>et al.</i>	03/09/1999	
	34	5,985,263		Lee <i>et al.</i>	11/16/1999	
	35	6,004,548		Souza	12/21/1999	
	36	6,027,720		Kuga <i>et al.</i>	02/22/2000	
	37	6,100,070		Zurfluh <i>et al.</i>	08/08/2000	
	38	6,166,183		Ishikawa <i>et al.</i>	12/26/2000	
	39	6,187,564		Sytkowski	02/13/2001	
✓	40	6,242,570		Sytkowski	06/05/2001	

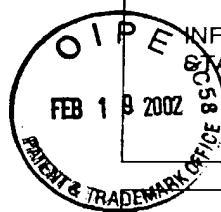
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		Office	Number	Kind Code (if known)				
PM	41	EP	0 256 843	A1	Cetus Corporation	02/24/1988		
	42	EP	0 335 423	A2	Kyowa Hakko Kogyo Co., Ltd.	10/04/1989		
	43	EP	0 215 126	B1	Chugai Seiyaku Kabushiki Kaisha	07/31/1991		
	44	EP	0 220 520	B1	Chugai Seiyaku Kabushiki Kaisha	09/18/1991		
	45	EP	0 344 796	B1	Chugai Seiyaku Kabushiki Kaisha	09/21/1994		
	46	EP	0 230 980	B2	Chugai Seiyaku Kabushiki Kaisha	03/20/1996		
✓	47	EP	0 744 409	A1	Kyowa Hakko Kogyo Kabushiki Kaisha	11/27/1996		

Examiner Signature	<i>Prema Mung</i>	Date Considered	2/3/04
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	Application Number	10/003,496
	Filing Date	November 1, 2001
	First Named Inventor	Torben Lauesgaard Nissen
	Group Art Unit	1645-1646
	Examiner Name	Unassigned - <i>Premia Menty</i>
Attorney Docket Number		0218us210

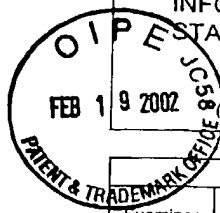
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Examiner Initials	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
		Office	Number	Kind Code (if known)				
PM	48	EP	0 370 205	B1	Kyowa Hakko Kogyo Co., Ltd.	07/22/1998		
	49	EP	0 921 131	A1	Kyowa Hakko Kogyo Co., Ltd.	06/09/1999		
	50	EP	0 237 545	B2	Kirin-Amgen, Inc.	08/25/1999		
	51	EP	0 169 566	B2	Chugai Seiyaku Kabushiki Kaisha	07/12/2000		
	52	EP	0 612 846	B1	Amgen, Inc.	08/16/2000		
	53	WO	89/05824		Genetics Institute, Inc.	06/29/1989		
	54	WO	89/10932		Amgen, Inc.	11/16/1989		
	55	WO	90/12874		Genetics Institute, Inc.	11/01/1990		
	56	WO	91/05798		Amgen Inc.	05/02/1991		
	57	WO	92/06116		Ortho Pharmaceutical Corporation	04/16/1992		
	58	WO	94/20069		Amgen Center	09/15/1994		
	59	WO	96/11953		Amgen Inc.	04/25/1995		
	60	WO	95/21629		Amgen Inc.	08/17/1995		
	61	WO	97/12977		G.D. Searle & Co.	04/10/1997		
	62	WO	98/27230		Maxygen, Inc.	06/25/1998		
	63	WO	98/53072		Korea Research Institute of Bioscience and Biotechnology <i>et al.</i>	11/26/1998		
	64	WO	99/02710		Beth Israel Deaconess Medical Center	01/21/1999		
	65	WO	99/03887		Bolder Biotechnology, Inc.	01/28/1999		

Examiner Signature	<i>Premia Menty</i>	Date Considered	2/3/04
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FOREIGN PATENT DOCUMENTS							
Examiner Initials	Cite No.	Office	Number	Kind Code (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
PM	66	WO	99/38891		Beth Israel Deaconess Medical Center	08/05/1999	
	67	WO	99/67291		Immunex Corporation	12/29/1999	
	68	WO	00/17336		Lee	03/20/2000	
	69	WO	00/40728		Xencor, Inc.	07/13/2000	
	70	WO	00/44785		Hoffman-La Roche Inc.	08/03/2000	
	71	WO	01/03737	A1	Bolder Biotechnology Inc.	01/18/2001	
	72	WO	01/51510	A2	Maxygen ApS	07/19/2001	

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PM	73	ARITOMI, MASAHARU, <i>et al.</i> , "Atomic structure of the GCSF-receptor complex showing a new cytokine—receptor recognition scheme," <i>Nature</i> 401:713-717 (1999)	
	74	BOWEN, SHARON, <i>et al.</i> , "Relationship between molecular mass and duration of activity of polyethylene glycol conjugated granulocyte colony-stimulating factor mutein," <i>Experimental Hematology</i> 27:425-432 (1999)	
	75	HILL, CHRISTOPHER P., <i>et al.</i> , "The structure of granulocyte-colony-stimulating factor and its relationship to other growth factors," <i>Proc. Natl. Acad. Sci. USA</i> 90:5167-5171 (1993)	
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	77	LANDAR, AIMEE, <i>et al.</i> , "Design, Characterization, and Structure of a Biologically Active Single-chain Mutant of Human IFN- γ ," <i>J. Mol. Biol.</i> 299:169-179 (2000)	

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Substitute for form 1449A-B/PTO <div style="border: 1px solid black; border-radius: 50%; padding: 10px; width: 100px; float: left; margin-right: 10px;"> O I P FEB 19 2002 PATENT & TRADEMARK OFFICE </div> INFORMATION DISCLOSURE STATEMENT BY APPLICANT (as many sheets as necessary)	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: left;">Complete if Known</th> </tr> <tr> <td style="width: 50%;">Application Number</td> <td>10/003,496</td> </tr> <tr> <td>Filing Date</td> <td>November 1, 2001</td> </tr> <tr> <td>First Named Inventor</td> <td>Torben Lauesgaard Nissen</td> </tr> <tr> <td>Group Art Unit</td> <td>1645 IL 40</td> </tr> <tr> <td>Examiner Name</td> <td>Unassigned Prema Menz</td> </tr> <tr> <td>Attorney Docket Number</td> <td>0218us210</td> </tr> </table>	Complete if Known		Application Number	10/003,496	Filing Date	November 1, 2001	First Named Inventor	Torben Lauesgaard Nissen	Group Art Unit	1645 IL 40	Examiner Name	Unassigned Prema Menz	Attorney Docket Number	0218us210
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PM	78	LEONG, STEVEN R., <i>et al.</i> , "IL-8 single-chain homodimers and heterodimers: Interactions with the chemokine receptors CXCR1, CXCR2, and DARC," <i>Protein Science</i> 6:609-619 (1997)	
	79	LI, JUN, <i>et al.</i> , "Mutants of Single Chain Interleukin 5 Show Asymmetric Recruitment of Receptor α and β_c Subunits," <i>J. Biol. Chem.</i> 271(49):31729-31735 (1996)	
	80	LI, JUN, <i>et al.</i> , "Single Chain Human Interleukin 5 and Its Asymmetric Mutagenesis for Mapping Receptor Binding Sites," <i>J. Biol. Chem.</i> 271(4):1817-1820 (1996)	
	81	NAGATA, SHIGEKAZU, <i>et al.</i> , "Molecular cloning and expression of cDNA for human granulocyte colony-stimulating factor," <i>Nature</i> 319:415-418 (1986)	
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	83	RANDAL, M., <i>et al.</i> , "Crystalization and preliminary X-ray analysis of a 1:1 complex between a designed monomeric interferon-gamma and its soluble receptor," <i>Protein Sci.</i> 7:1057-1060 (1998)	
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	85	SATAKE-ISHIKAWA, R., <i>et al.</i> , "Chemical Modification of Recombinant Human Granulocyte Colony-Stimulating Factor by Polyethylene Glycol Increases its Biological Activity <i>in vivo</i> ," <i>Cell Structure and Function</i> 17:157-160 (1992)	
	86	SOUZA, LAWRENCE M., <i>et al.</i> , "Recombinant Human Granulocyte Colony-Stimulating Factor: Effects on Normal and Leukemic Myeloid Cells," <i>Science</i> 232:61-65 (1986)	
	87	YAMASAKI, M., <i>et al.</i> , "Effect of Divalent Polyethylene Glycol Units, Conjugated on Human Granulocyte Colony-Stimulating Factor, on Biological Activities <i>In Vitro</i> and <i>In Vivo</i> ," <i>Drugs Exptl. Clin. Res.</i> 24(4):191-196 (1998)	
✓	88	ZINK, THOMAS, <i>et al.</i> , "Structure and Dynamics of the Human Granulocyte Colony-Stimulating Factor Determined by NMR Spectroscopy. Loop Mobility in a Four-Helix-Bundle Protein," <i>Biochemistry</i> 33:8453-8463 (1994)	
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